## What is claimed is:

1. A method of applying liquid or pastelike substances, especially thermoplastics, to a backing material, the substance being applied by means of a die at least partly to the backing material traveling along on the die, wherein

- the die body is bent transversely to the direction of travel of the backing material
  and
- the bending is induced by temperature differences within the die body.

The method as claimed in claim 1, wherein the die has at least two zones temperature-controlled differently in its cross section and/or along its longitudinal axis.

5

<del>-2</del>0

30

The method as claimed in either of claims 1 and 2, wherein the die body is temperature-controlled using a heat transfer fluid or cooling fluid, electrical heaters, Peltier elements, radiation or convection.

- 4. The method as claimed in any of claims 1 to 3, wherein the coating fluid is itself used for temperature control of at least one of the zones.
- 5. The method as claimed in any of claims 1 to 4, wherein the die in its mounts may be moved and/or swiveled.
- 6. The method as claimed in any of claims 1 to 5, wherein the bending occurs substantially perpendicularly to the backing material or substantially in or against the direction of travel of the backing material.
  - 7. The method as claimed in any of claims 1 to 6 wherein the backing material is guided along an apparatus which produces counterpressure, in particular a roll.
  - 8. The method as claimed in one or more of the preceding claims, wherein the substance is applied by means of the die through a perforated cylinder onto the backing material.

- 9. The method as claimed in one or more of the preceding claims, wherein the bending of the die is controlled as a function of the amount of the substance that is applied, determined on the traveling web.
- 5 10. The method as claimed in one or more of the preceding claims, wherein the substance at the processing shear has a dynamic zero temperature viscosity of from 0.1 Pa.s to 1 000 Pa.s, preferably from 1 Pa.s to 500 Pa.s.
  - 11. The method as claimed in one or more of the preceding claims, wherein the substance is a solution, dispersion, prepolymer or thermoplastic polymer, preferably a hot-melt adhesive, with particular preference a hot-melt pressure-sensitive adhesive.
  - 12. The method as claimed in one or more of the preceding claims, wherein the backing material is a roll or belt having an abhesive surface, the abhesive surface comprising in particular a coating of silicone or fluorine compounds or plasma-coated release systems, applied very particularly at a weight per unit area of from 0.001 g/m² to 3 000 g/m², preferably from 100 to 2 000 g/m².

APPA2

Obs 7

ossoss of the second